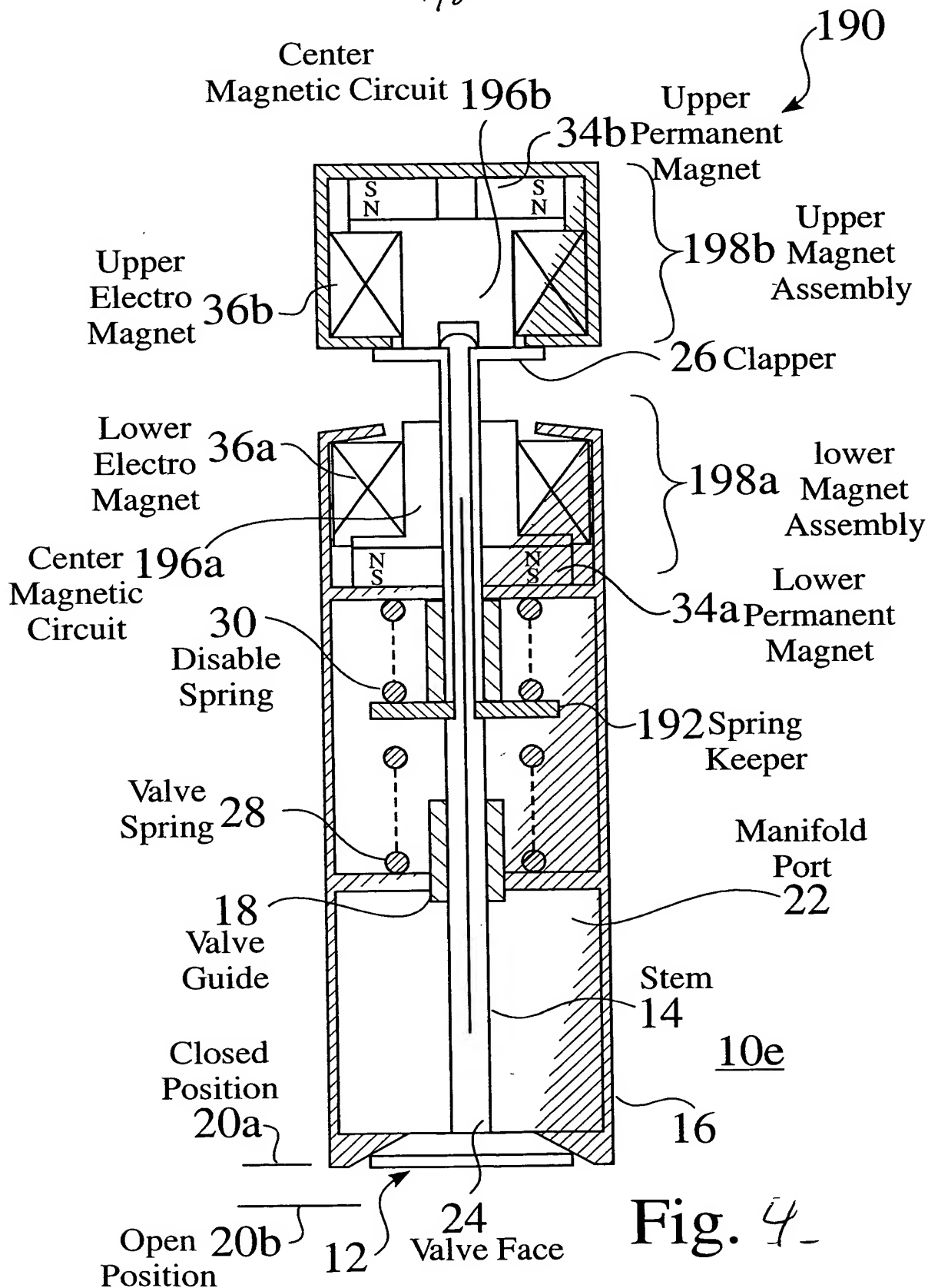


Fig. 2



1

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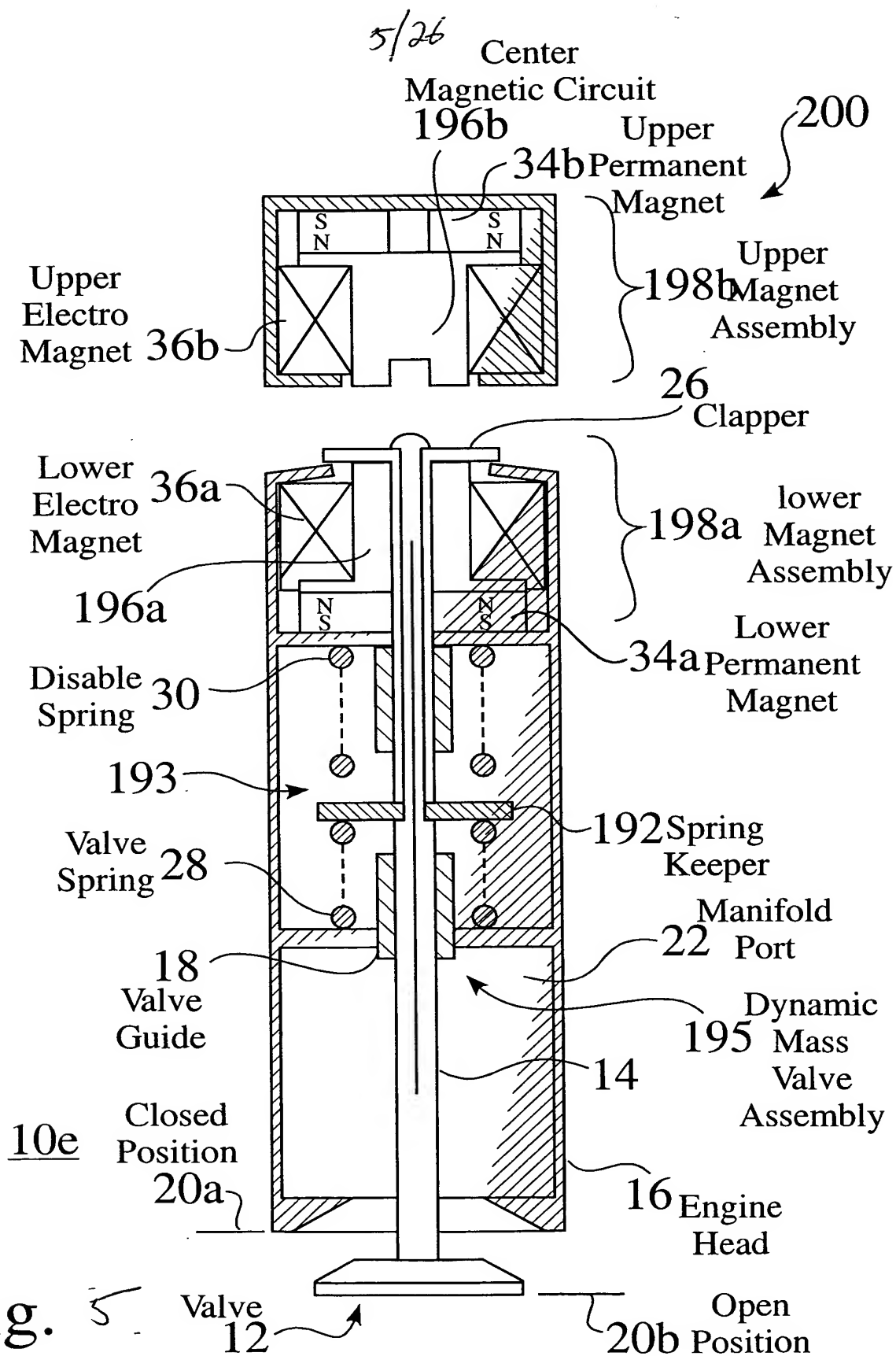


Fig. 5

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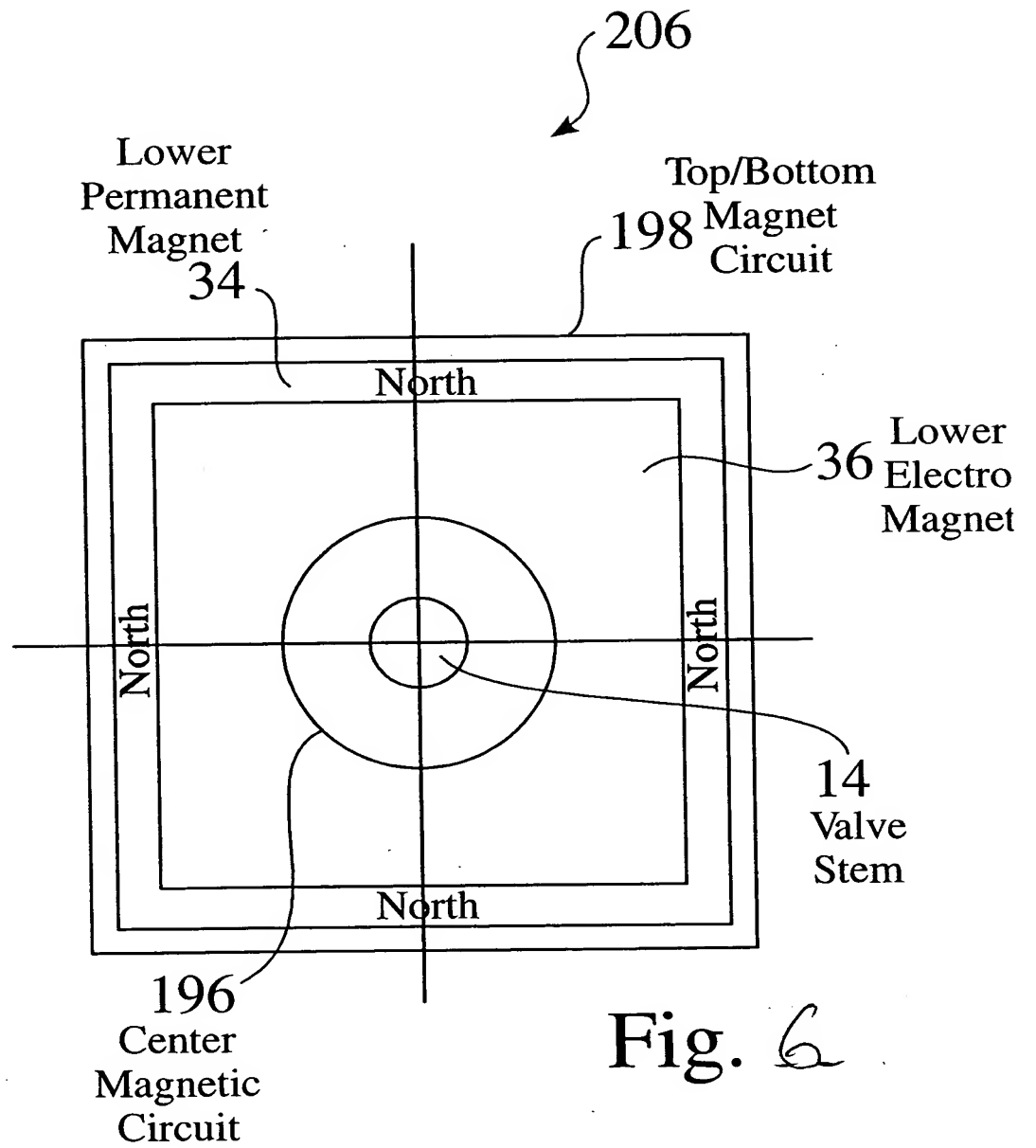


Fig. 6

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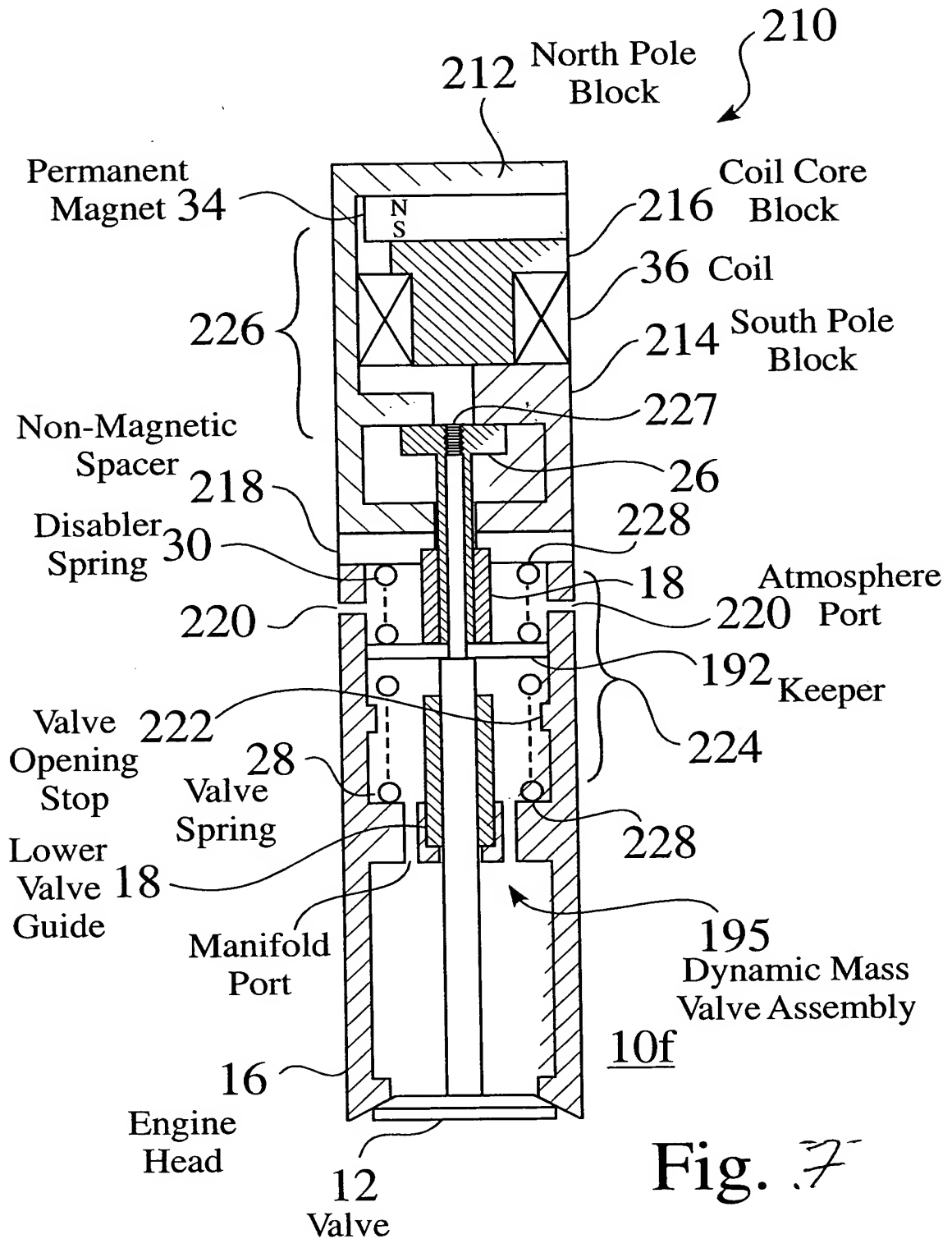


Fig. 7

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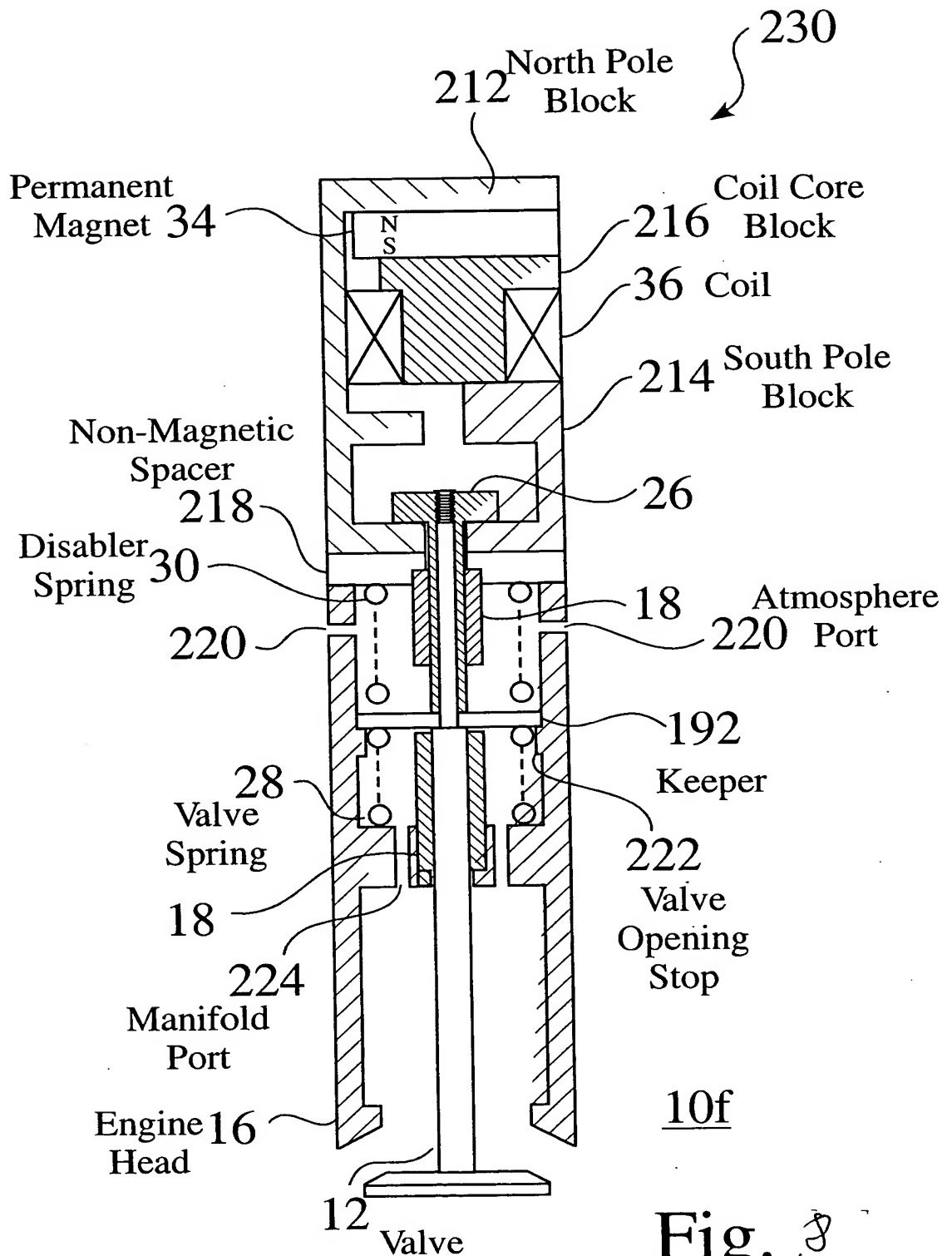


Fig. 8

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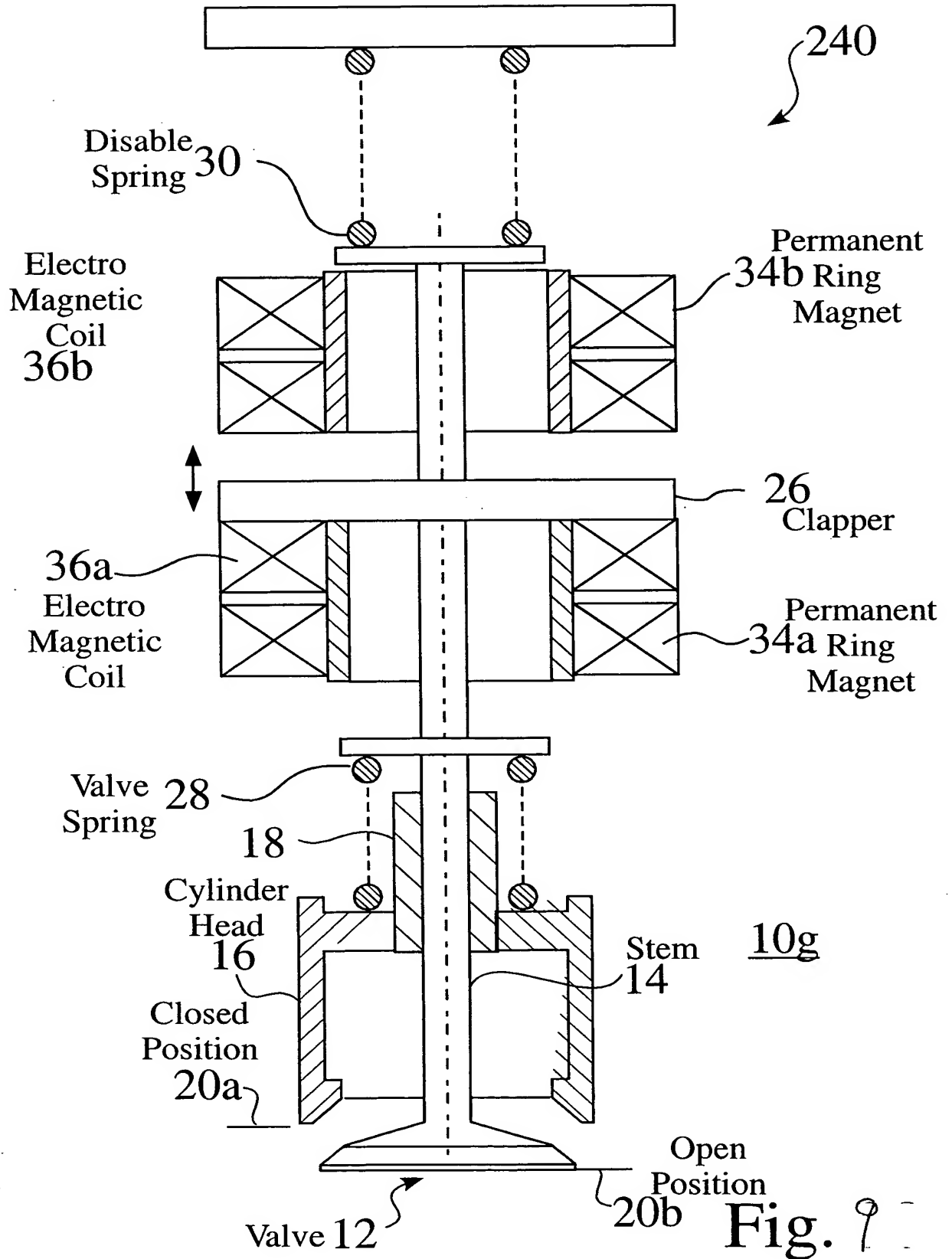


Fig. 7

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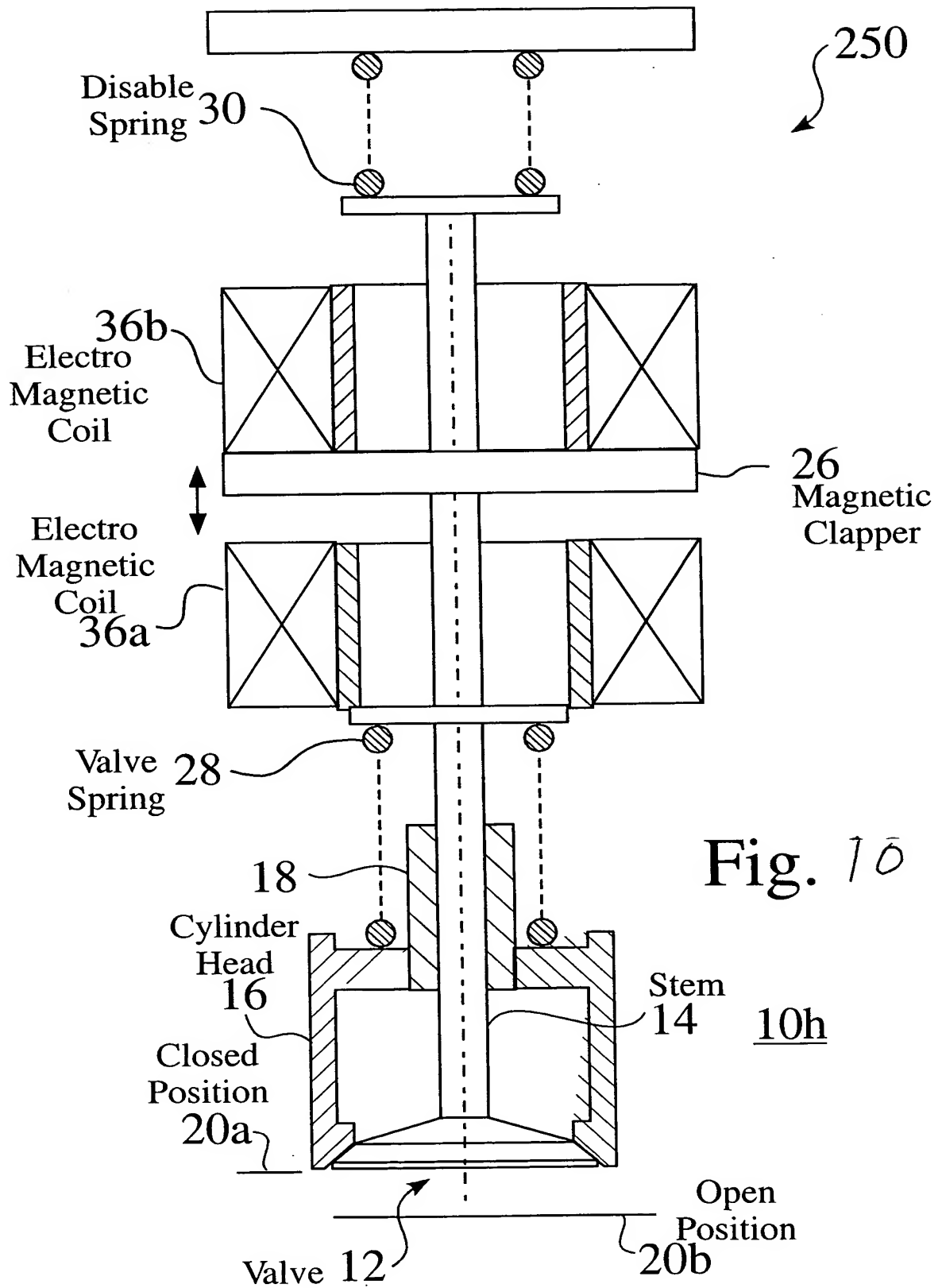


Fig. 10

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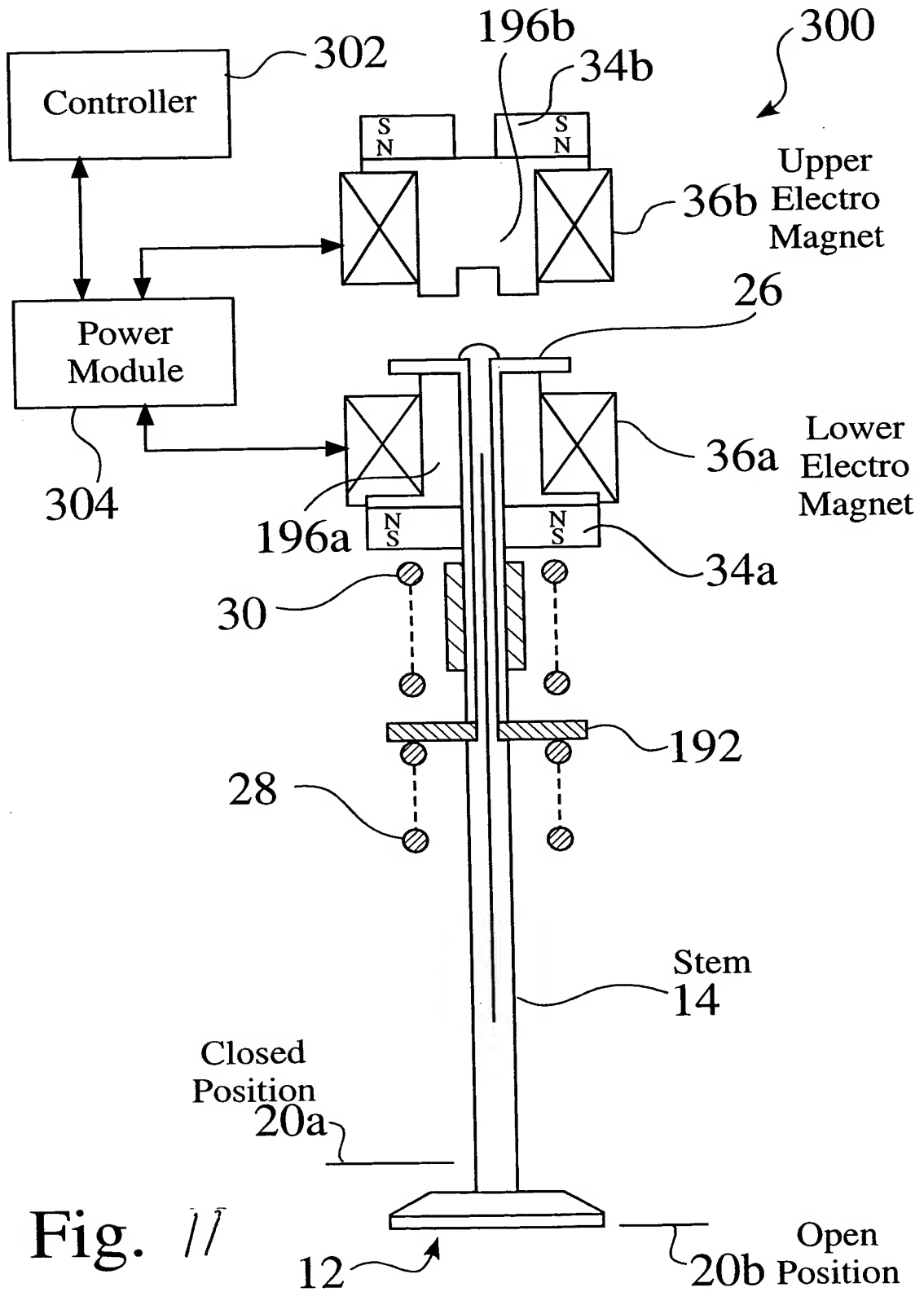
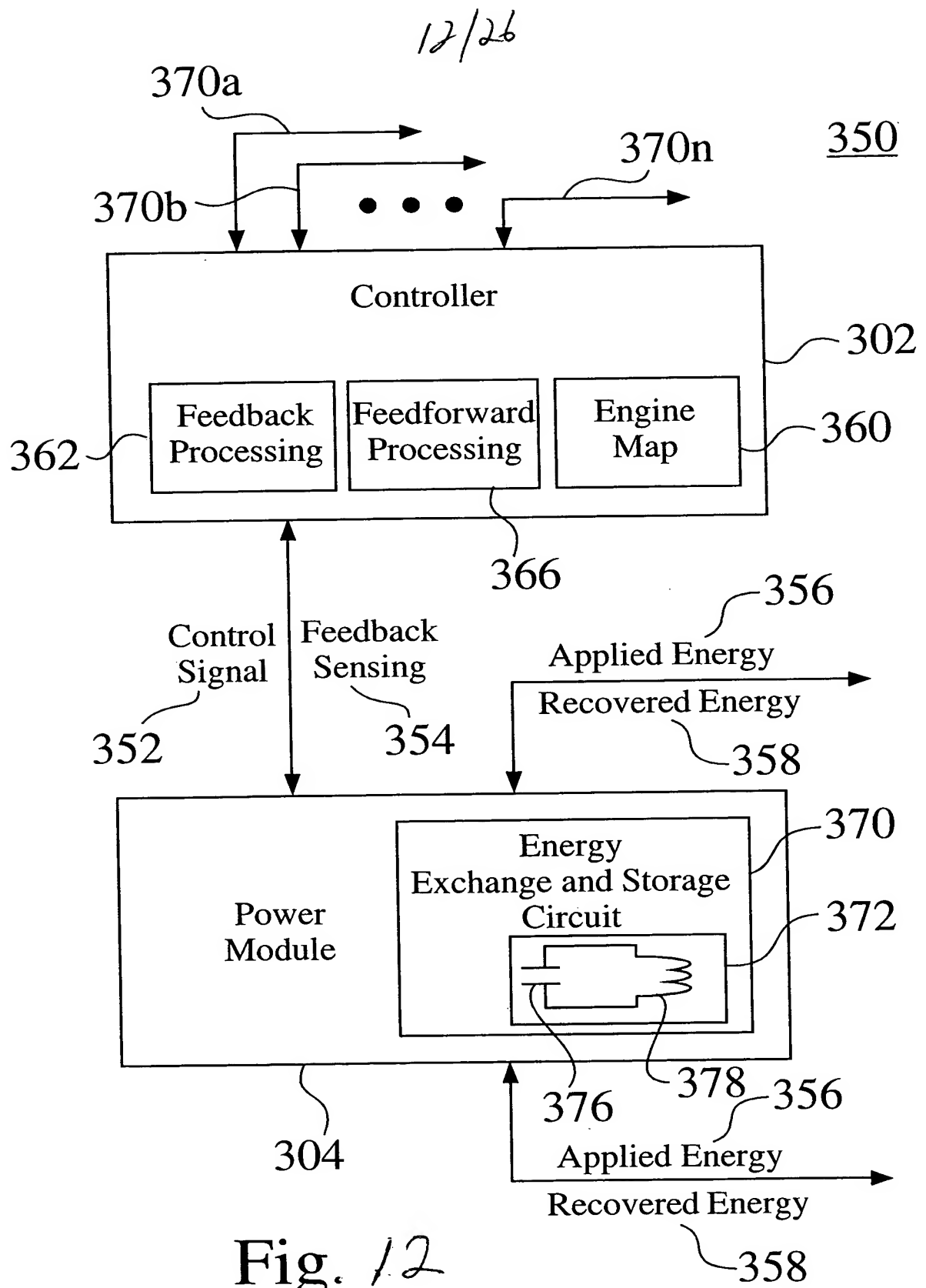


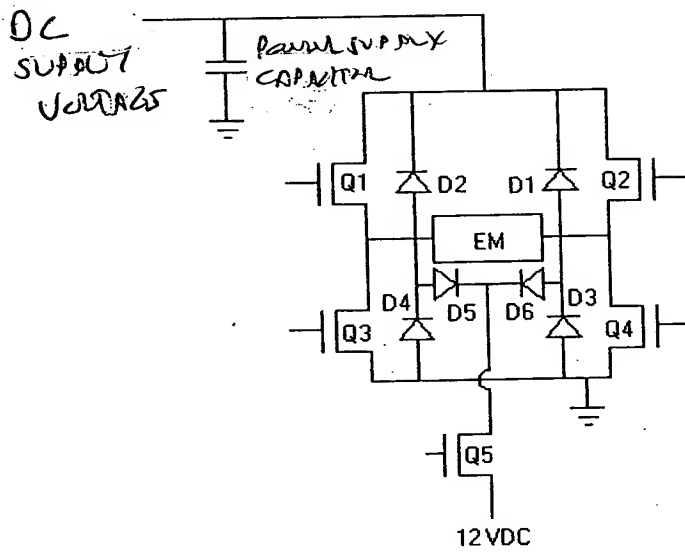
Fig. 11



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Figure 13

H-BRIDGE CIRCUIT FOR ONE ELECTROMAGNET



Note: EM = Electromagnet

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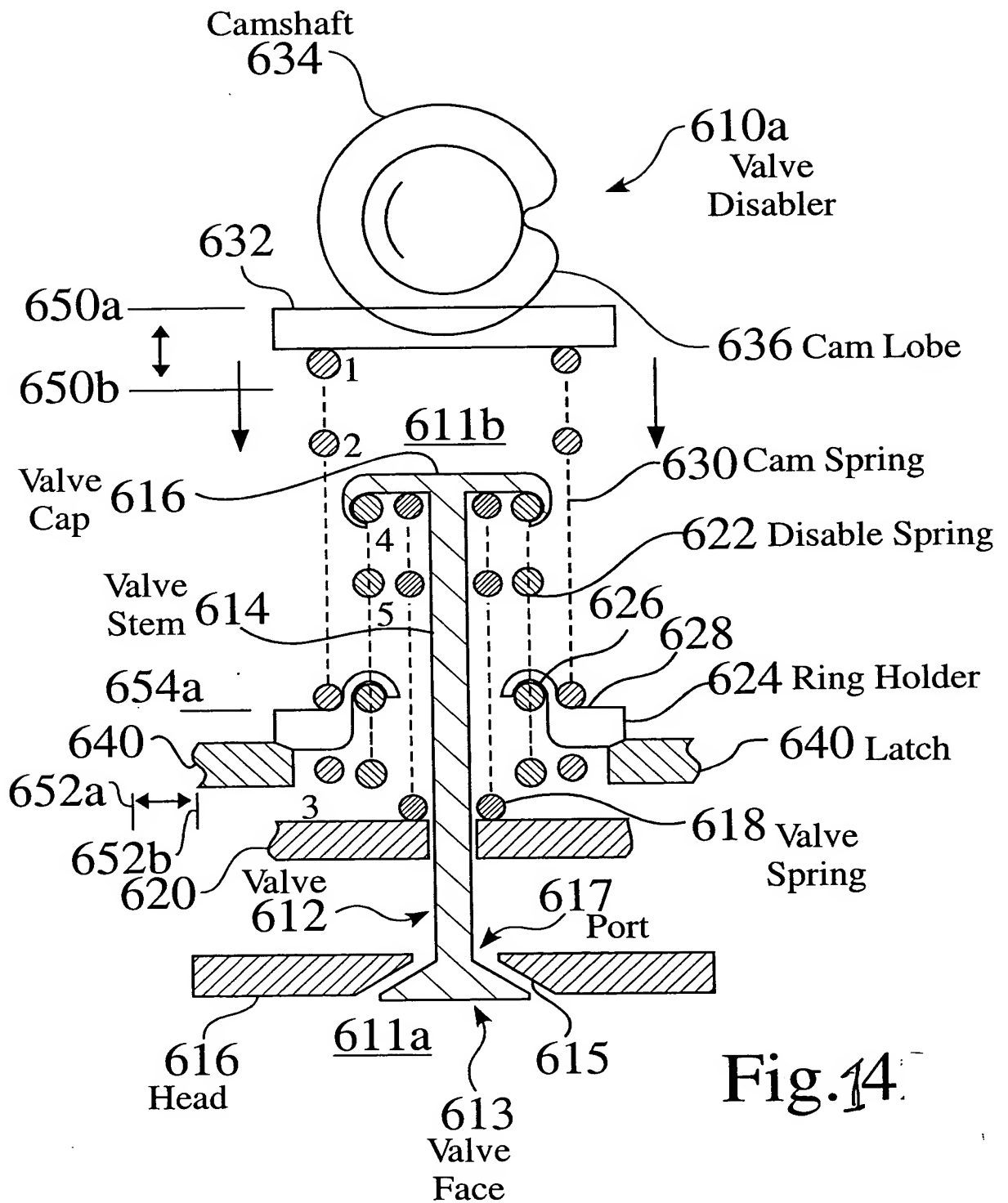


Fig. 14

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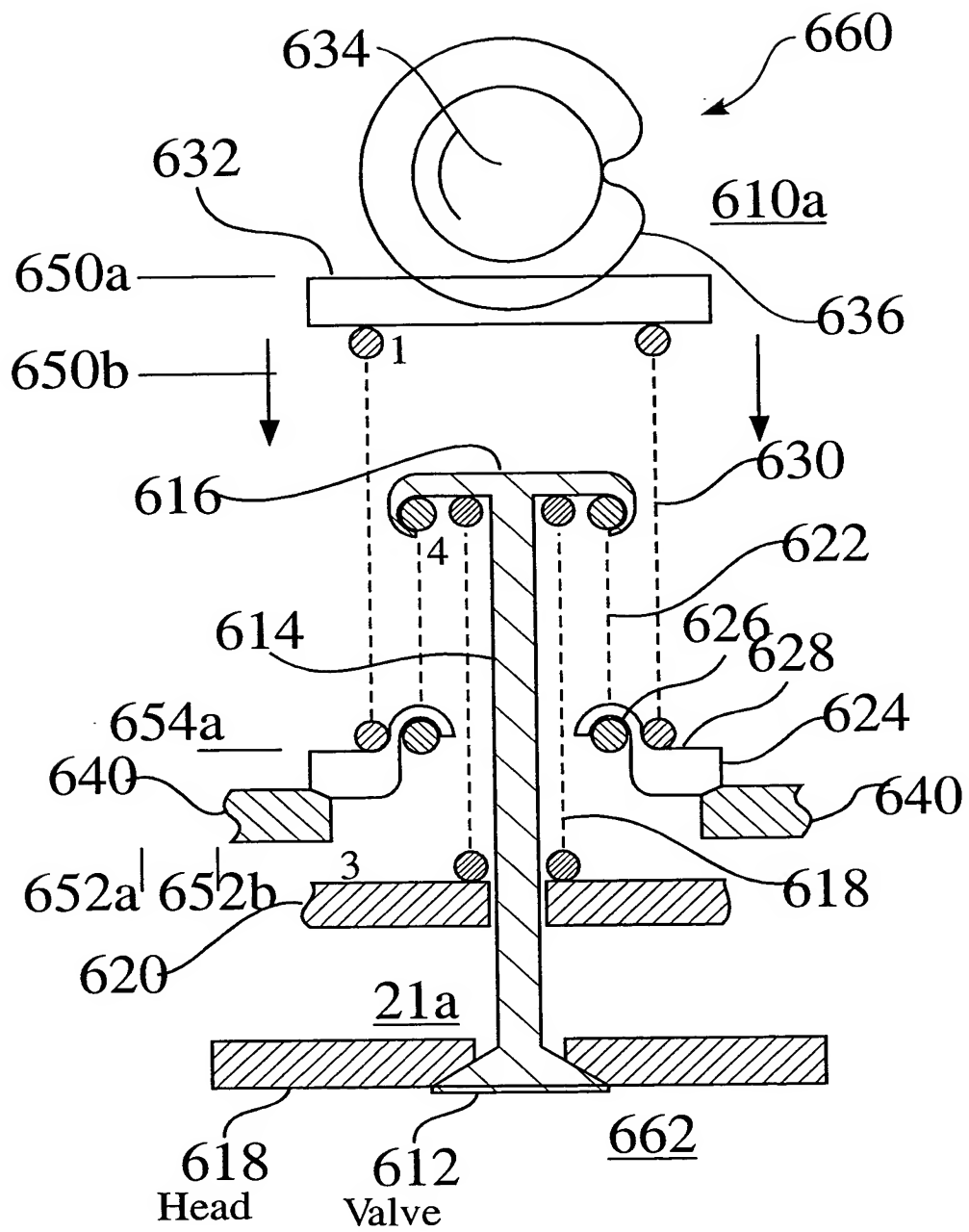


Fig. 15

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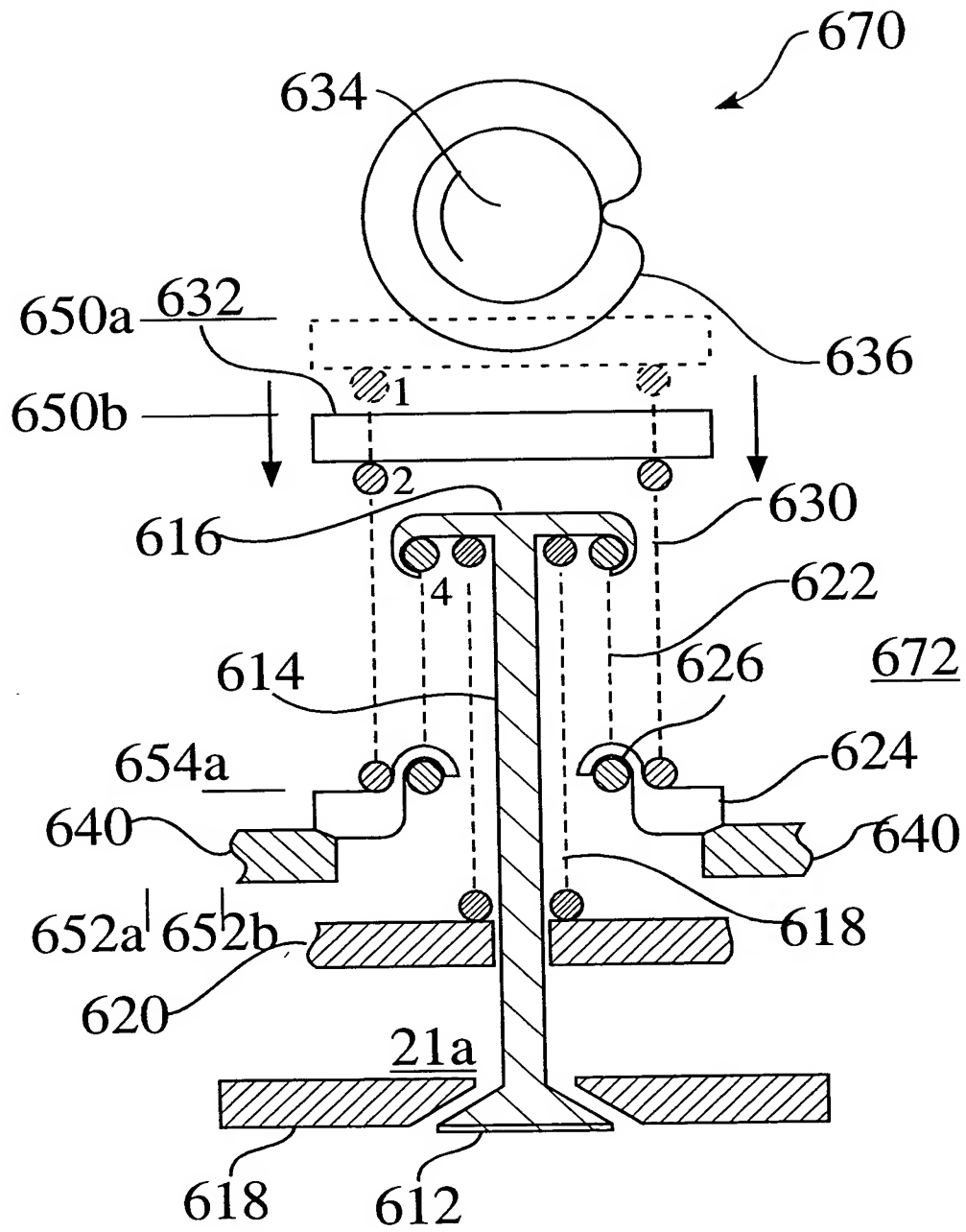


Fig. 16

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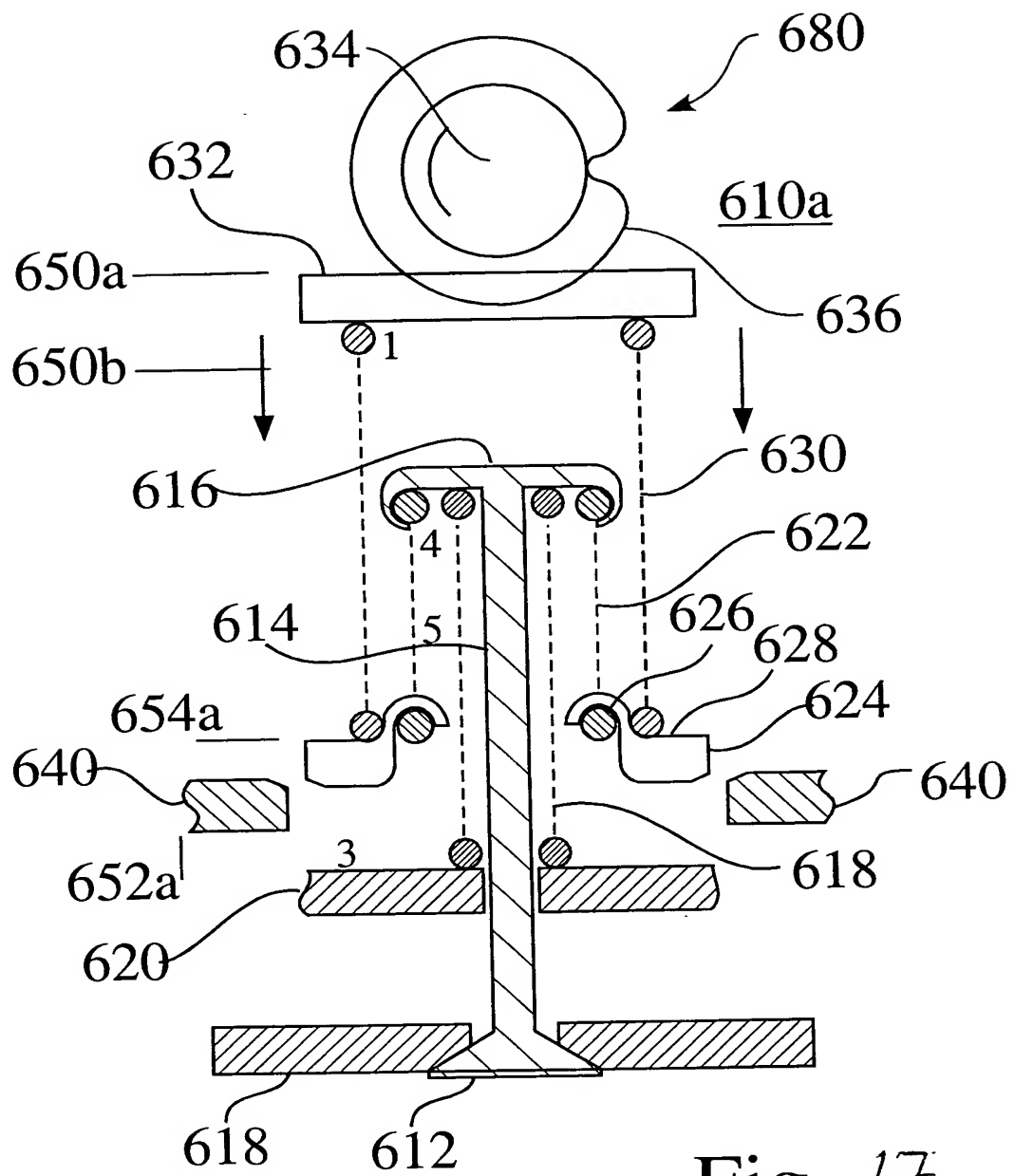


Fig. 17

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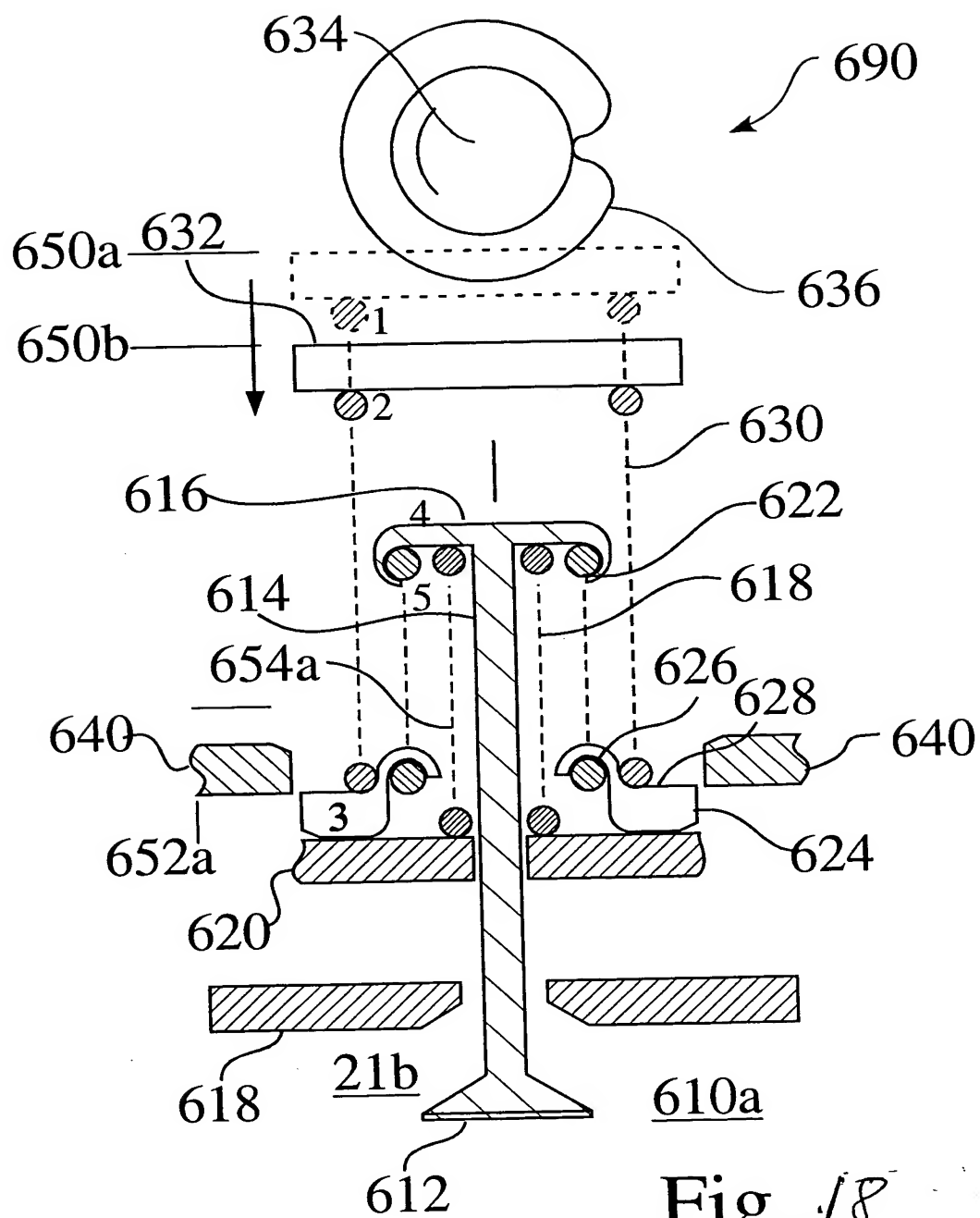


Fig. 18

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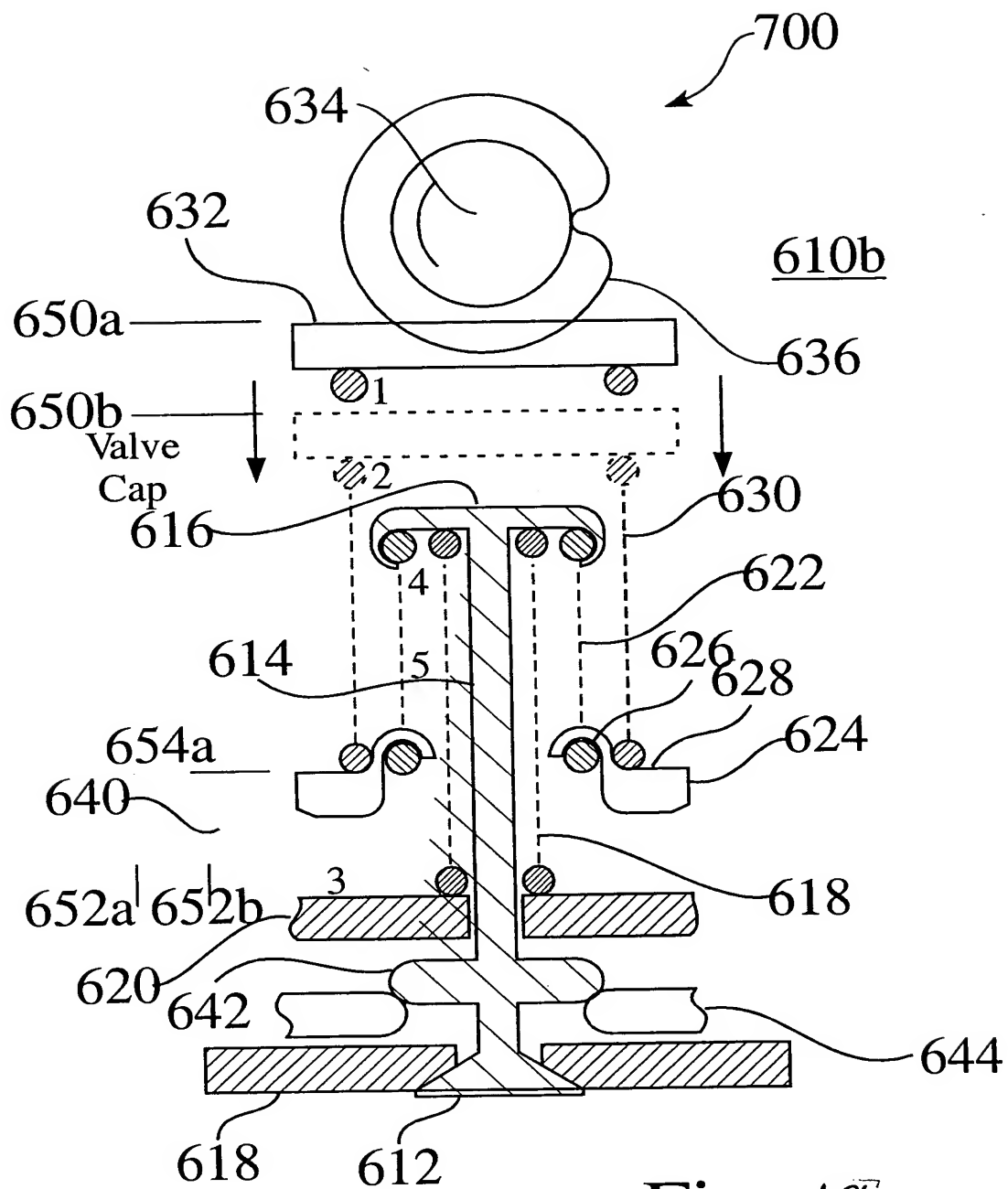
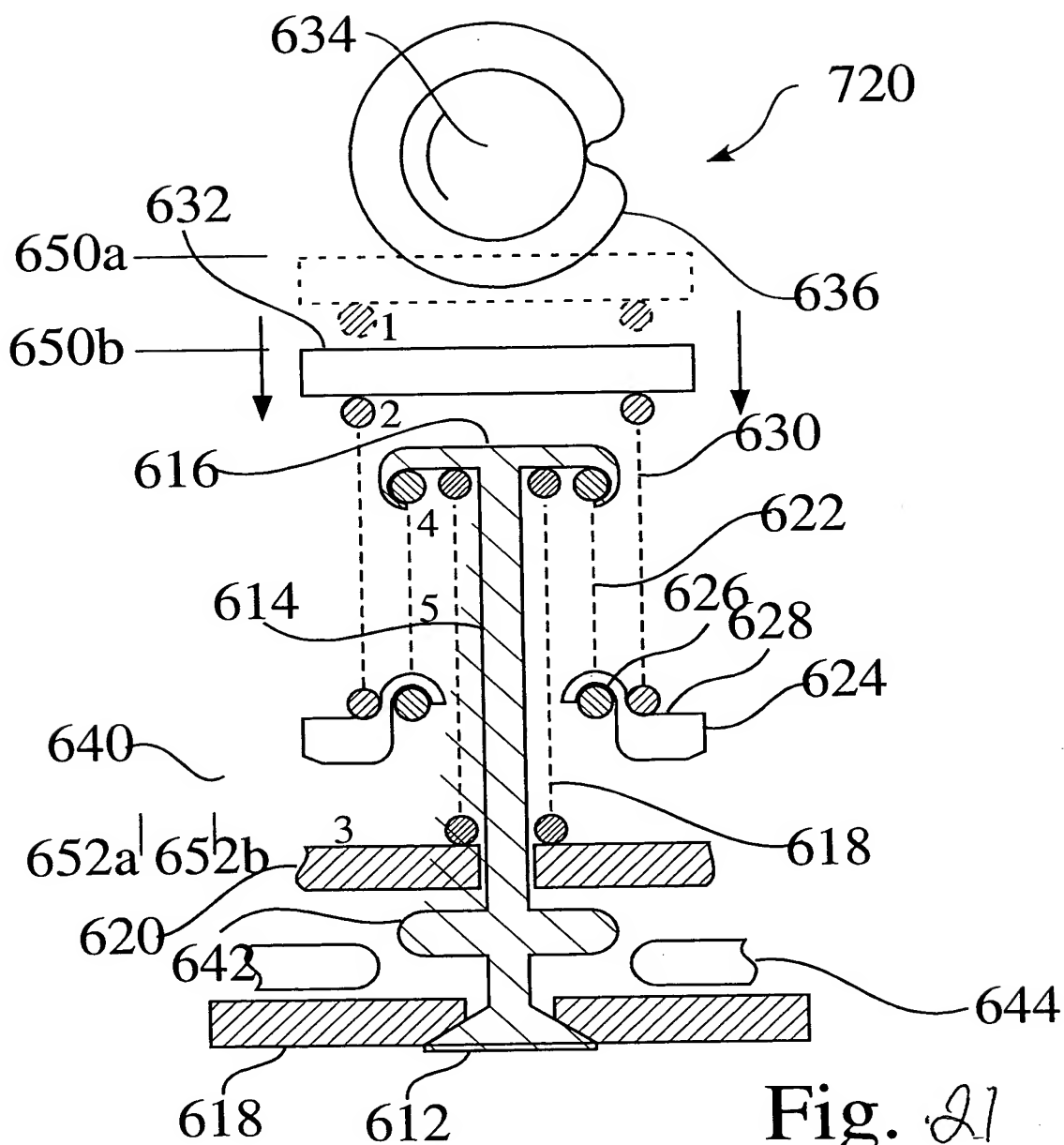


Fig. 19

Fig. 20

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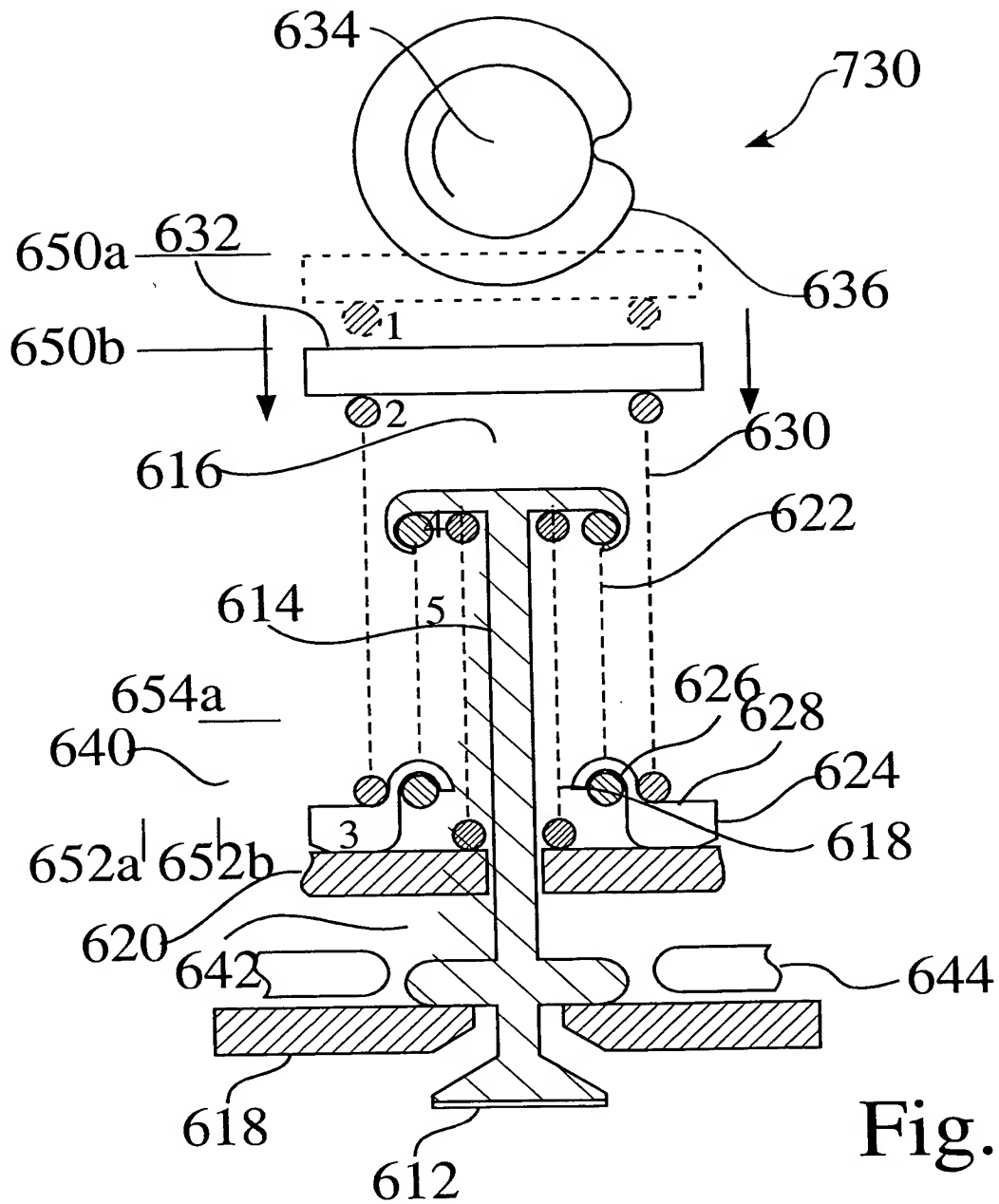


Fig. 22

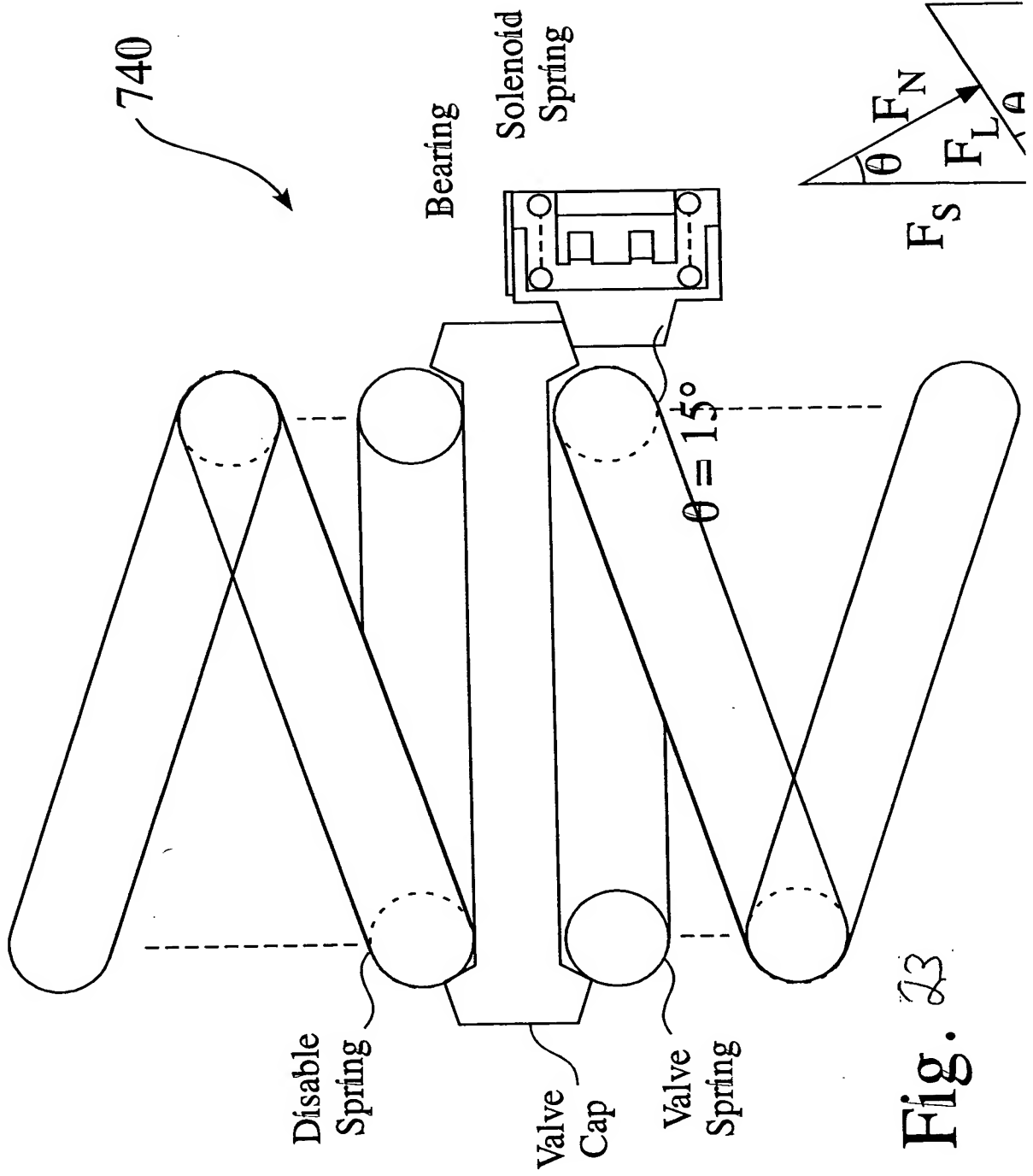


Fig. 23

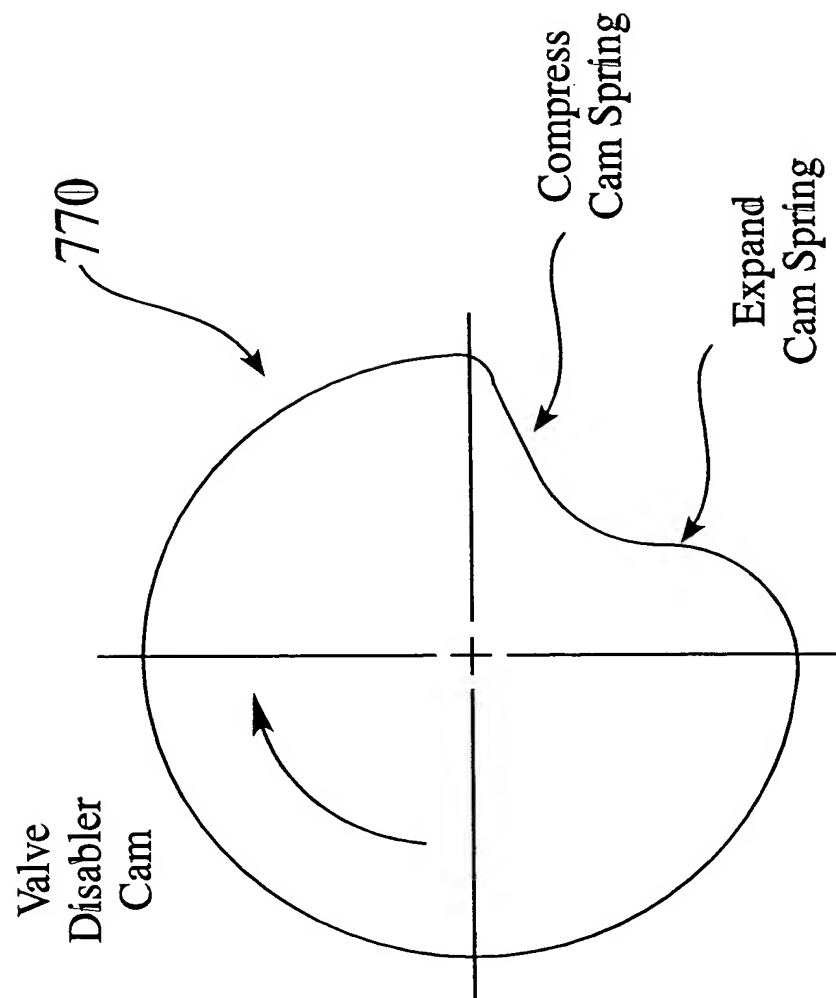
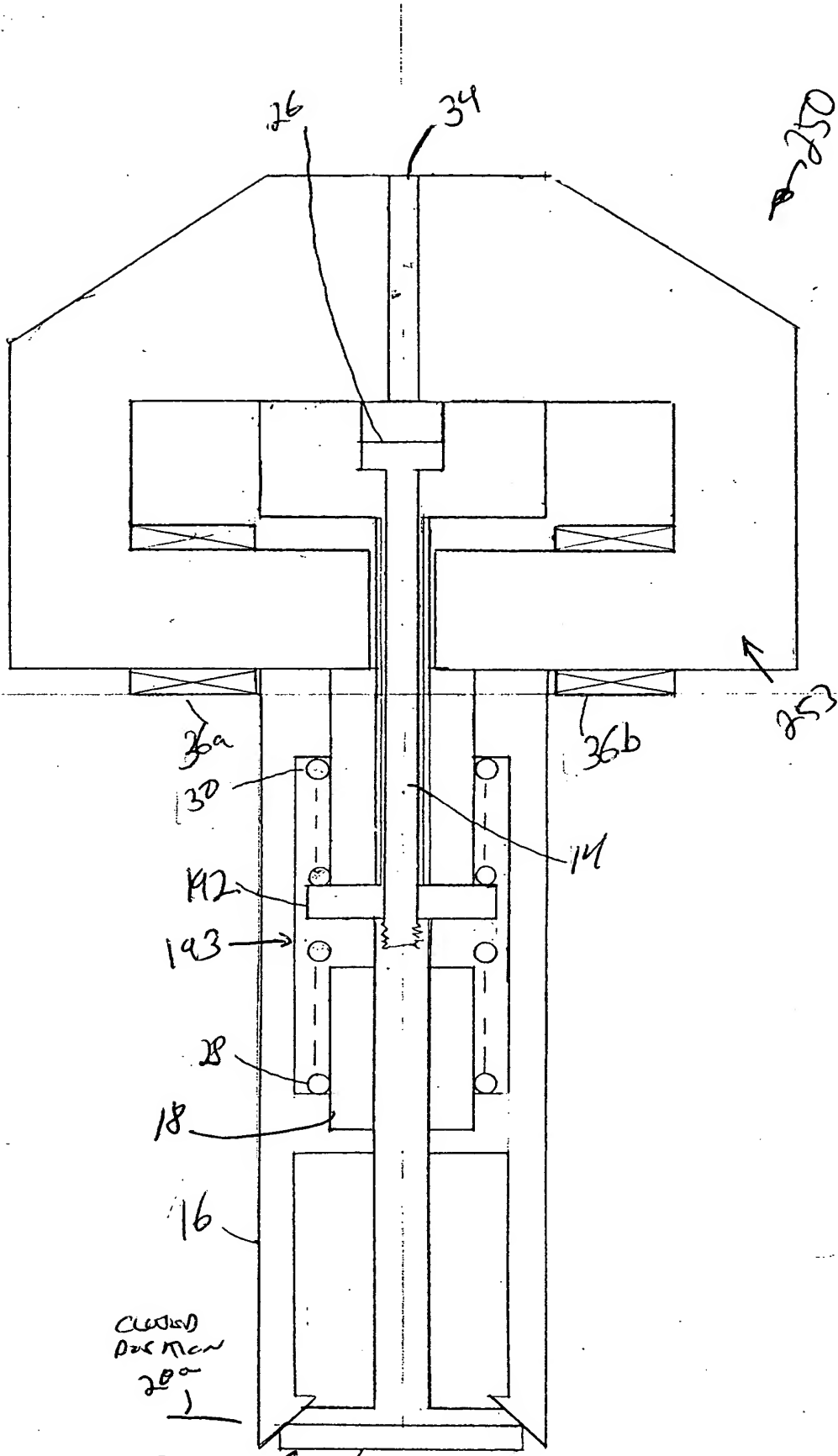


Fig. 24



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CLOSED
POSITION
20a
OPEN
POSITION
20b

F16-25

10in

250

253

36b

14

34

26

26a

30

142

143

28

18

16

24

12

20b

250a

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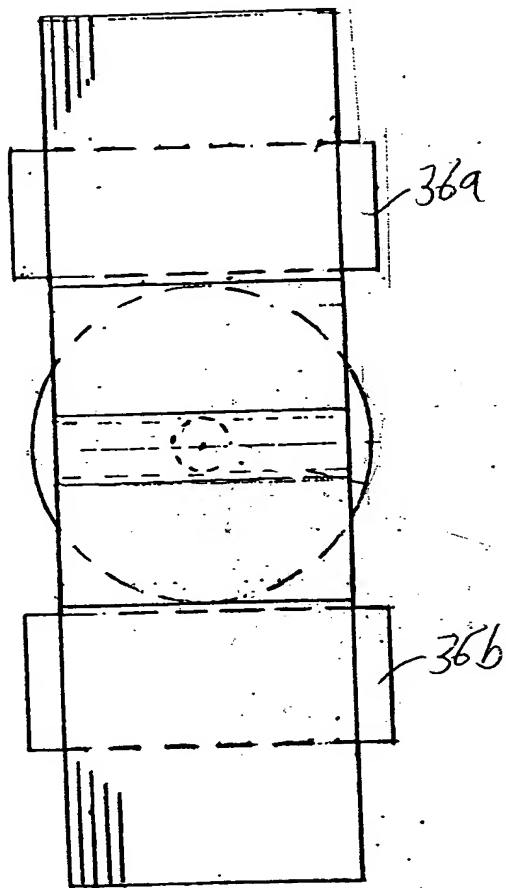


Fig. 26